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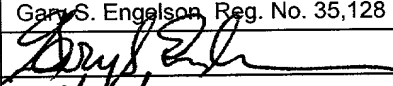
UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b))	Attorney Docket No.	S1389/7009
	First Named Inventor or Application Identifier	
	Robert Seliger	
	Express Mail Label No.	EL583586704US
	Date of Deposit	May 30, 2000

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APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents	ADDRESS TO: Box Patent Application Commissioner for Patents Washington, DC 20231
1. <input checked="" type="checkbox"/> Fee Transmittal Form (Submit an original, and a duplicate for fee processing) 2. <input checked="" type="checkbox"/> Specification [Total pages 13] 10 - pages description 1 - pages abstract 2 - pages claims 11 - Total claims 3. <input checked="" type="checkbox"/> Drawing(s) (35 USC 113) [Total sheets 3] <input checked="" type="checkbox"/> Informal <input type="checkbox"/> Formal [Total drawings 4] 4. <input checked="" type="checkbox"/> Oath or Declaration [Total pages 2] a. <input type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 17 completed) [Note Box 5 below] i. <input type="checkbox"/> <u>DELETION OF INVENTOR(S)</u> Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 5. <input type="checkbox"/> Incorporation by Reference (usable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.	6. <input type="checkbox"/> Microfiche Computer Program (Appendix) 7. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. <input type="checkbox"/> Computer Readable Copy b. <input type="checkbox"/> Paper Copy (identical to computer copy) c. <input type="checkbox"/> Statement verifying identity of above copies ACCOMPANYING APPLICATION PARTS 8. <input type="checkbox"/> Assignment Papers/cover sheet & documents(s) 9. <input type="checkbox"/> 37 CFR 3.73(b) Statement (when there is an assignee) <input type="checkbox"/> Power of Attorney 10. <input type="checkbox"/> English Translation of Document (if applicable) 11. <input type="checkbox"/> Information Disclosure Statement PTO-1449 <input type="checkbox"/> Copies of IDS Citations 12. <input type="checkbox"/> Preliminary Amendment 13. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 14. <input checked="" type="checkbox"/> Small Entity Statement(s) <input type="checkbox"/> Statement filed in prior application, Status still proper and desired 15. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. Other: This application claims priority under 35 U.S.C. §119(e) to U.S. Provisional Application No. 60/136,670, filed May 28, 1999 and Provisional Application No. 60/139,235, filed June 14, 1999.	
17. If a CONTINUING APPLICATION , check appropriate box and supply the requisite information: <input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No.: <input type="checkbox"/> Cancel in this application original claims of the prior application before calculating the filing fee. <input type="checkbox"/> Amend the specification by inserting before the first line the sentence: This application is a <input type="checkbox"/> continuation <input type="checkbox"/> divisional of application serial no. , filed , entitled , and now .	

18. CORRESPONDENCE ADDRESS					
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NAME	Gary S. Engelson, Reg. No. 35,128
SIGNATURE	
DATE	5/30/00

Inventor or Identifier: Robert Seliger

Serial No: Not yet assigned

Filed: Herewith

For: Context Management Server Appliance

CHECK BOX, if applicable:

☐ **DUPLICATE**


Fee Calculation Sheet

CLAIMS	FOR	NUMBER FILED	NUMBER EXTRA	RATE	FEE
TOTAL CLAIMS (37 CFR 1.16(c))		11-20=	0 x	\$18	= \$ 0.00
INDEPENDENT CLAIMS (37 CFR 1.16(b))		2-3=	0 x	\$78	= \$ 0.00
MULTIPLE DEPENDENT CLAIMS (if applicable) (37 CFR 1.16(d)) +				\$260	= \$
				BASIC FEE (37 CFR 1.16(a))	\$ 690.00
Total of above Calculations =					\$ 690.00
Reduction by 50% for filing by small entity (Note 37 CFR 1.9, 1.27, 1.28).					\$ 345.00
Assignment Recordation Fee (if any)					\$
Other Fees (if any).					\$
TOTAL =					\$ 345.00

1. A check in the amount of \$ 345.00 is enclosed.

General Authorization to Charge Deposit Account and General Request for Extension of Time

2. a. ☒ If the filing of any paper in this application necessitates the payment of a fee under 37 CFR §§ ☒ 1.16 ☒ 1.17 or ☐ 1.18, and the fee due is in an amount different from any enclosed check or if no check is enclosed, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 23/2825.
- b. ☐ The applicant hereby revokes any prior authorization to charge a fee due under 37 CFR §§ ☐ 1.16 ☐ 1.17 or ☐ 1.18.
3. If the filing of any paper in this application necessitates an extension of time under 37 CFR § 1.136(a), the applicant hereby requests such extension of time. If the fee due is in an amount different from any enclosed check or if no check is enclosed, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 23/2825.


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Docket No. S1389/7009
 Date: May 30, 2000

Attorney's Docket No. S1389/7009 GSE.

Applicant or Patentee:

Robert AS 5/30/00
Roger Sellger

Serial or Patent No:

Not yet assigned

Filed or Issued:

Herewith

For:

CONTEXT MANAGEMENT SERVER APPLIANCE

**DECLARATION CLAIMING SMALL ENTITY STATUS
(SMALL BUSINESS CONCERN)**

I hereby declare that I am

- ☐ the owner of the small business concern identified below:
☒ an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF CONCERN: SENTILLION, INC.

ADDRESS OF CONCERN: 300 Brickstone Square, Andover, MA 01810

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention, entitled CONTEXT MANAGEMENT SERVER APPLIANCE by inventor(s), Roger Sellger, described in

Robert AS 5/30/00

- ☒ the specification filed herewith
☐ application serial no. _____
☐ patent no. _____, issued _____.

If the rights held by the small business concern are not exclusive, each individual concern or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under

37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

- ☒ no such person, concern, or organization
☐ persons, concerns or organizations listed below*

*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

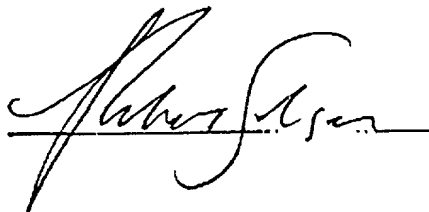
I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING:
TITLE OF PERSON IF OTHER THAN OWNER:
ADDRESS OF PERSON SIGNING:

Robert *PS 5/30/00*
Roger Seliger
President
300 Brickstone Square
Andover, MA 01810

SIGNATURE



DATE

May 30, 2000

CONTEXT MANAGEMENT SERVER APPLIANCE

BACKGROUND OF THE INVENTION

5 CROSS-REFERENCE TO RELATED APPLICATIONS

The present application claims domestic priority under 35 U.S.C. §119(e) to U.S. Patent Application Serial No. 60/136,670, filed May 28, 1999, and to U.S. Patent Application Serial No. 60/139,235, filed June 14, 1999, both of which are incorporated herein by reference. The subject matter disclosed herein is also related to the subject
10 matter of U.S. Patent Application Serial No. 09/545,396, filed April 7, 2000, also incorporated herein by reference.

FIELD OF THE INVENTION

The present invention relates to context management systems. More particularly,
15 the invention relates to systems in which context management software is configured as a server. Yet more particularly, the invention relates to a server appliance including a standalone computer and software system, which performs context management over a network. In some aspects, the invention relates to such a server appliance, which is applicable to context management of healthcare applications.

20

RELATED ART

There are many businesses or fields of endeavor, which rely on the use of plural desktop computer applications. One such field is the modern practice of medicine. In such a setting, users quite often find themselves entering and reentering similar
25 information over and over. For example, a single user may have to repeat login information in plural applications, followed by the same or similar client information. Such information that defines the environment in which each application operates is known as context. That is, context is a collection of data items and corresponding values, wherein the items represent information required in common between plural
30 applications in an industry or business setting. For example, in health care, a patient identifier (patient ID) is an item which is part of the context in which plural clinical applications may participate, or share.

In the modern practice of medicine, a physician or other professional or staff member may need to store, retrieve, analyze, etc. various types of patient data. The patient data to be processed may be clinical; e.g. x-ray images or blood work results, or may be financial, e.g. insurance cover and billing history. Thus, clinical applications, such as those to store, retrieve and display x-ray images and those to store, retrieve and display blood work results have inputs and outputs which fall into two broad classes: highly specialized, work product specific I/O; and more general, context-related I/O.

The desirability of managing context information, so that a user at a workstation need not reenter information such as user identification (user ID) or patient identification (patient ID) has long been recognized.

A standard known as Health Level Seven Context Management Specification Version CM-1.1 was promulgated by the Health Level Seven (HL7) Clinical Context Object Workgroup (CCOW) on November 6, 1999, incorporated herein in its entirety by reference, to define an interface and other architectural definitions of a Context Management Architecture (CMA), whereby clinical applications interact with a Context Manager to manage context information across a range of clinical and other health care related applications.

At this time, there is no other known, comprehensive context management software packages available. Some small steps have been taken for example to share context amongst one publisher's own titles, using proprietary methods absent a context manager, or to permit a user to sign onto a single application which transfers user context to plural other applications. However, no context manager handling both user and patient context is known, much less a complete system with central administration of the context management process.

A context management administrator is described in detail in U.S. Patent Application Serial No. 09/545,396, referred to above.

Context managers and context management administration software require communication from a user via a user interface. Conventional context managers and context management administrators therefore require a console or monitor and keyboard connected to the computer system on which they execute, in order for the user to communicate therewith. A context management administrator may communicate

directly with one or more context managers residing on the same computer system. Alternatively, they may communicate through a network.

Likewise a context manager may execute on a computer system in common with the applications whose context is managed, or may execute on a remote computer system, communicating with the applications over a network.

A server appliance is a relatively new type of computing device. The server appliance is a network-connected server that provides a service to multiple client computers. A client requests the server to perform a specific task, such as returning a response to a database query. The server performs the task and returns the result of having performed the task back to the client.

However, unlike traditional computing servers that provide general-purpose platforms for a wide range of computing tasks, a server appliance is singular in purpose. A server appliance contains specialized software, and possibly specialized hardware, as well, to enable it to achieve its specialized purpose. Server appliances can therefore be optimized for the specific tasks that they may be designed to perform, thereby reducing the server cost and complexity as compared to the cost and complexity of general-purpose servers.

Conventional commercially available server appliances include print server appliances, whose only function is to queue print jobs and route them to appropriate printers; web server appliances, whose only function is to host a single web site or small group of web sites; electronic mail server appliances, whose only function is to host electronic mail services; and, file server appliances, whose only function is to centrally store and retrieve computer files.

The computing hardware on which server appliances are built conventionally includes a central processing unit, memory and long term data storage, all packaged within a single unit. The unit conventionally has only a power supply input and a network input/output (I/O) port. The network I/O port may connect the server appliance to a computer network using any conventional networking hardware, including but not limited to a modem connection, an Ethernet connection, a universal serial bus (USB) connection, etc.

The user controls on a server appliance are conventionally very simple. There may be no controls at all, only a power connection and a network connection, as noted above. Alternatively, there may simply be an on/off switch.

5

SUMMARY OF THE INVENTION

The present invention overcomes problems with the conventional approaches to hosting context management and context management administration software by providing, according to various aspects and embodiments thereof, a turnkey system
10 providing context management through a network. Embodiments of the invention can bootstrap themselves into operation after only being connected to a power supply and network.

One embodiment of the invention in a context management server appliance includes a computer system and memory executing a stored set of instruction. The
15 computer system has a power supply input and a network input/output (I/O) port. The memory includes a memory in which is stored a set of instructions defining a context management server which delivers context management information to client applications and a memory in which is stored a set of instructions defining a software interface for administering the context management server over the network using a
20 general-purpose client interface. According to another embodiment of the invention, the context management server appliance further includes a memory in which is stored configuration information for the context management server, whereby the context management server can bootstrap without requiring user intervention. When such an embodiment can bootstrap independently of user intervention, there may also be a
25 memory in which is stored a set of instructions which when executed connect the server appliance to the network absent user intervention. According to another embodiment of the context management server appliance there may be included a memory in which is stored a set of instructions which when executed balance a processing load on the server appliance with a processing load on another server appliance. According to yet another
30 embodiment of the invention, the context management server appliance includes a memory in which is stored a set of instructions which when executed transfers a processing load from a failed server appliance to another server appliance.

Some embodiments of the invention may use servers, which communicate using a standard protocol such as the Hypertext Transport Protocol used in the World Wide Web of the global computer network, the Internet. In such an embodiment, applications can access the context management server through a World Wide Web universal resource locator (URL) on the global Internet. Such a URL need not provide access by a user of a conventional browser client to any information, but may be accessible only to application programs whose context are managed. The protection may use user ID and password, encryption and other trusted transaction systems known in the art.

BRIEF DESCRIPTION OF THE DRAWINGS

In the drawings, in which like reference designations indicate like elements:

Fig. 1 is a block diagram of a system of context management applications and the context manager operating through a network;

Fig. 2 is a block diagram of one embodiment of a context management server appliance;

Fig. 3 is a block diagram of another embodiment of the invention constructed using two server appliances; and

Fig. 4 is a block diagram of yet another embodiment of the invention with built in load sharing and fault tolerant features.

DETAILED DESCRIPTION

The invention will be better understood upon reading the following detailed description of some embodiments and aspects thereof in connection with the figures.

In accordance with some embodiments of the invention, a software agent acting on behalf of the user, referred to as a *Context Manager* (CM), enables applications to establish and maintain a common context on behalf of a user. The context may be organized in a variety of ways. For example, in the healthcare industry, the Health Level Seven Context Management Standard represents clinical context as a set of context subjects. Each subject represents a real-world entity, such as a patient or clinical provider, or a real-world concept, such as a clinical encounter, order, or disease state. Context management is explained in some detail in U.S. Patent Application Serial No. 09/545,396, noted above.

When a user performs a relevant application gesture, such as selecting a patient from a list of patients, the application informs the context manager of this fact. The context manager is then responsible for conveying to the other applications that a patient has been selected. Information that identifies the patient is conveyed via the context manager. All of the applications in use then tune their data displays to the selected patient.

In accordance with one aspect of the invention, shown in Fig. 1, the CM resides and executes on a computer, for example web server 102, separate from the application 103 managed. The applications send information to and receive information from the CM through the World Wide Web 104 over the global Internet 105. Communication is effected using conventional protocols such as TCP/IP and HTTP, as needed.

The Web server 102 shown may be distributed over one or more computers providing the functions of the CM 101 and a context vault 106 providing passcode services and a user-mapping agent (UMA). These functions are all described in detail in U.S. Patent Application Serial No. 09/545,396, noted above.

A World Wide Web server provides the only application interface needed for the applications to access the CM and the supporting Context Vaults.

In accordance with another aspect of the invention, as shown in Fig. 2, the context manager 101 resides on the server appliance 201, but tracks and maintains a user's context as established by the user upon a particular computer running an application 103. A single context manager 101 may service one, or several, computers and applications. However, each computer perceives that it is interacting with a single context manager 101.

A network connection 202 between each user's computer and the server appliance enables the necessary communication. The network which the server appliance of Fig. 2 is connected to may be the global Internet, for example, or another wide area or local area network. In addition to the context manager 101, the server appliance 201 may contain additional service modules that support the context manager in performing its tasks. As shown in Fig. 2, the appliance may provide the CM 101 and Context Vault 106 functions.

The physical controls for a server appliance are generally limited in nature, and in the simplest case may consist only of an on-off switch. A power connection 203 and a

network connection 204 complete this simplest of physical configurations. Devoid of a keyboard, mouse, and other traditional user-interface devices, any interaction with the appliance for the purposes of installation, configuration or maintenance is effected via remote applications that communicate with the appliance through its network connection, for example using conventional browser 205 client software. In such a configuration, the browser 205 would be directed to a particular location 206 in the Web site supported by the appliance, at which a configuration program can be accessed and controlled through an interface displayed by the browser 205 in response to messages from the configuration program 206.

The context management server appliance can be implemented in a variety of ways. One way is to adapt an existing server appliance device by creating and installing the necessary context management software and complementary support tools. The network connection to the Internet would be based upon the TCP/IP protocol upon which a higher-level communication protocol such as HTTP might be used, as mentioned above.

The specific network messages that pertain to context management can be represented in a variety of ways. One example is to define messages using the syntax of HTTP, such that each message represents a specific action for the server to process. For example, an application might send a specific message when it wants to change the data for the current context. It would send a different message if it wanted to obtain the data for the current context.

The functionality of context management can be partitioned, according to another aspect of the invention shown in Fig. 3. In this exemplary partitioning, the CM and Context Vault are each configured to execute on their own server appliance 301 and 302, respectively. The server appliances 301, 302 then communicate with each other through the network 202 to which they are connected. Applications 103 whose context is managed communicate with the CM using TCP/IP and HTTP, for example, as before.

As shown in Fig. 4, plural manager appliances can be connected to the network. When an application addresses a context manager, the communication may be mediated by a service which ensures that the work load of the plurality of context managers is fairly distributed. The load sharing service itself may be distributed amongst the various context managers which communicate with each other and with the managed

applications through the network. When a context manager fails or is taken off line for service, the same or a similar service can ensure that context management tasks are suitably redistributed amongst the remaining context management server appliances.

5 Server appliances embodying aspects of the invention do not merely serve back to the managed applications stored data or simply process input messages. These server appliances perform all of the complex CM functions described in U.S. Patent Application Serial No. 09/545,396, as well as serving the result of that activity to the managed applications.

10 This invention has been motivated by the application of context management to healthcare. However, context management, and therefore a context management server appliance, can be applied to many industries, and as such this invention is not limited to healthcare.

15 A network connection between each user's computer and the server appliance, and/or between other general-purpose servers and the server appliance, enables the necessary communication. In addition, the server appliance may contain additional modules that enable the server to be remotely configured and supported.

In the healthcare field, the use of a server appliance for hosting the services relating to maintaining a Master Patient Index, and for hosting services relating to Coding data, is particularly unique.

20 In general, a Master Patient Index (MPI) implements an application service wherein the myriad of identifiers typically assigned by a healthcare organization to represent each person known to the organization are reconciled. This reconciliation enables the unambiguous correlation of information about a person who is represented by different identifiers in different electronic and paper systems. An MPI typically
25 maintains additional descriptive information about each person. This information, usually referred to as demographics data, includes the person's full name, address, telephone number, etc.

30 There are currently many MPI software products, each implementing various algorithms for correlating person identifiers. However, these products are all deployed on general-purpose servers. In embodiments of this invention, the MPI is deployed within a server appliance, thereby providing an optimized, cost-effective, easier-to-maintain, information utility for the healthcare enterprise.

Another type of healthcare server appliance is a Coding server appliance. In general, coding involves the representation of data or concepts as a numeric value, even if the data or concept is not numeric in nature. The numeric representation enables the data or concept to be annotated in terms of its semantic meaning. This enables the electronic interpretation of meaning and facilitates electronically computed deductions, rules, constraints, and comparisons.

For example, the healthcare industry has defined a variety of schemes for representing medications using coded values. This enables physicians to precisely indicate (either manually or electronically) the particular medication issued, independent of the medication's trade name. Once the coded value is entered, systems can check whether the medication has been appropriately administered, determine how much to charge to the patient's bill, etc.

There are currently many Coding software products, each implementing various algorithms for annotating data with coded values. However, these products are all deployed on general-purpose servers. In this invention, the Coding is deployed within a server appliance, thereby providing an optimized, cost-effective, easier-to-maintain, information utility for the healthcare enterprise.

Embodiments of a healthcare MPI or Coding server appliance can be implemented in a variety of ways. One way is to adapt an existing server appliance device by creating and installing the necessary software and complementary support tools. The network connection is most likely based upon the TCP/IP protocol upon which a higher-level communication protocol such as HTTP might be used.

The specific network messages that pertain to context management can be represented in a variety of ways. One example is to define messages using the syntax of HTTP, such that each message represents a specific action for the server to process. For example, an application might send a specific message to an MPI server appliance when it wants to determine if two identifiers represent the same person. It would send a different message if it wanted to obtain demographics data for a person.

The invention has been illustrated by the foregoing description of a number of aspects and embodiments thereof. Numerous variations contemplated as within the scope and spirit of the invention should now be apparent to those skilled in the art. The

invention should therefore not be limited by the foregoing description, but rather by the properly construed claims, which follow.

CLAIMS

What is claimed is:

1. A context management server appliance, comprising:
a computer system having a power supply input and a network
5 input/output (I/O) port;
a memory in which is stored a set of instructions defining a context
management server which delivers context management information to client
applications; and
a memory in which is stored a set of instructions defining a software
10 interface for administering the context management server over the network using a
general-purpose client interface.
2. The context management server appliance of claim 1, further comprising:
a memory in which is stored configuration information for the context
15 management server, whereby the context management server can bootstrap without
requiring user intervention.
3. The context management server appliance of claim 2, further comprising:
a memory in which is stored a set of instructions which when executed
20 connect the server appliance to the network absent user intervention.
4. The context management server appliance of claim 1, further comprising:
a memory in which is stored a set of instructions which when executed
balance a processing load on the server appliance with a processing load on another
25 server appliance.
5. The context management server appliance of claim 1, further comprising:
a memory in which is stored a set of instructions which when executed
transfers a processing load from a failed server appliance to another server appliance.
30
6. The server appliance of claim 1, further comprising:
a memory in which is stored a Master Patient Index.

7. The server appliance of claim 1, further comprising:
a memory in which is stored a healthcare coding index.

- 5 8. A context management web site accessible through a network,
comprising:
a computer memory in which is stored a set of instructions defining a
context manager accessible to managed applications through the network; and
a computer memory in which is stored a set of instructions defining a
10 context vault accessible to the context manager.

9. The context management web site of claim 8, wherein the context vault is
accessible to the context manager through the network.

- 15 10. The context management web site of claim 8, further comprising:
a Maser Patient Index server.

11. The context management web site of claim 8, further comprising:
a healthcare coding index server.

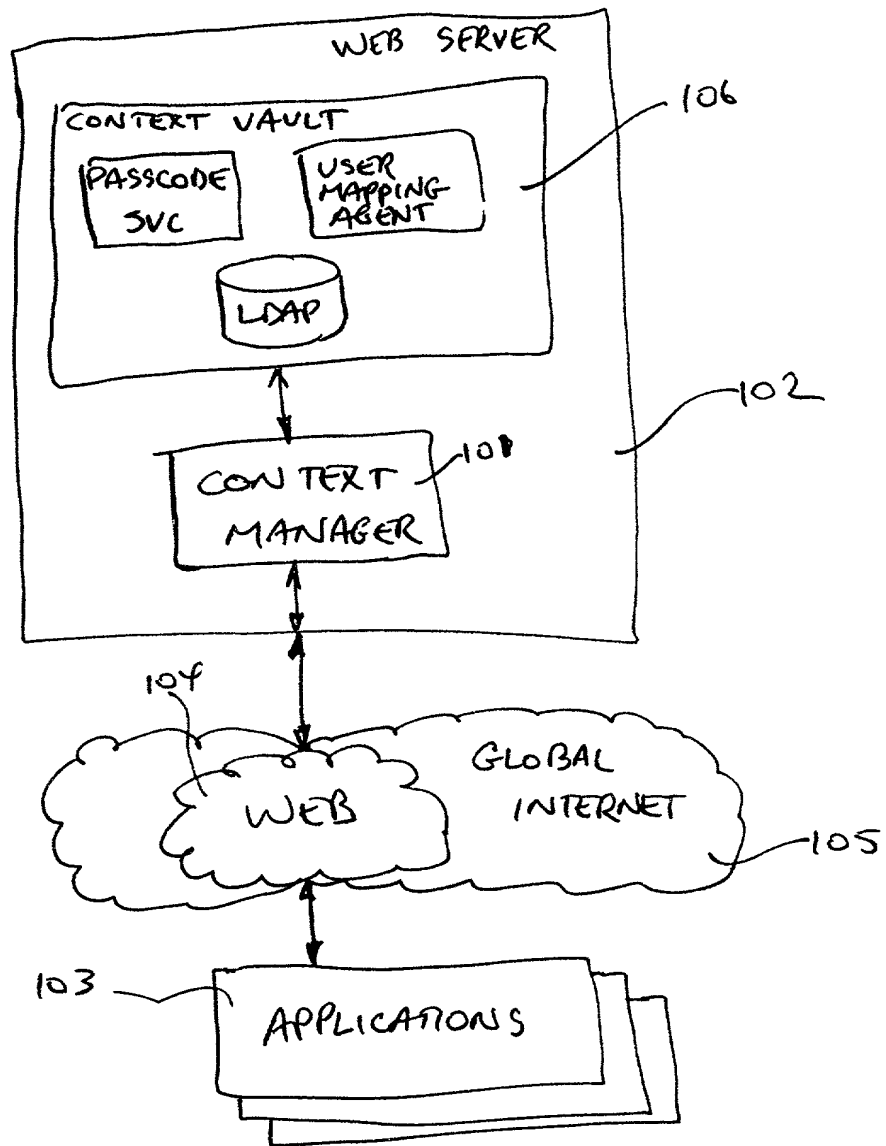


FIG. 1

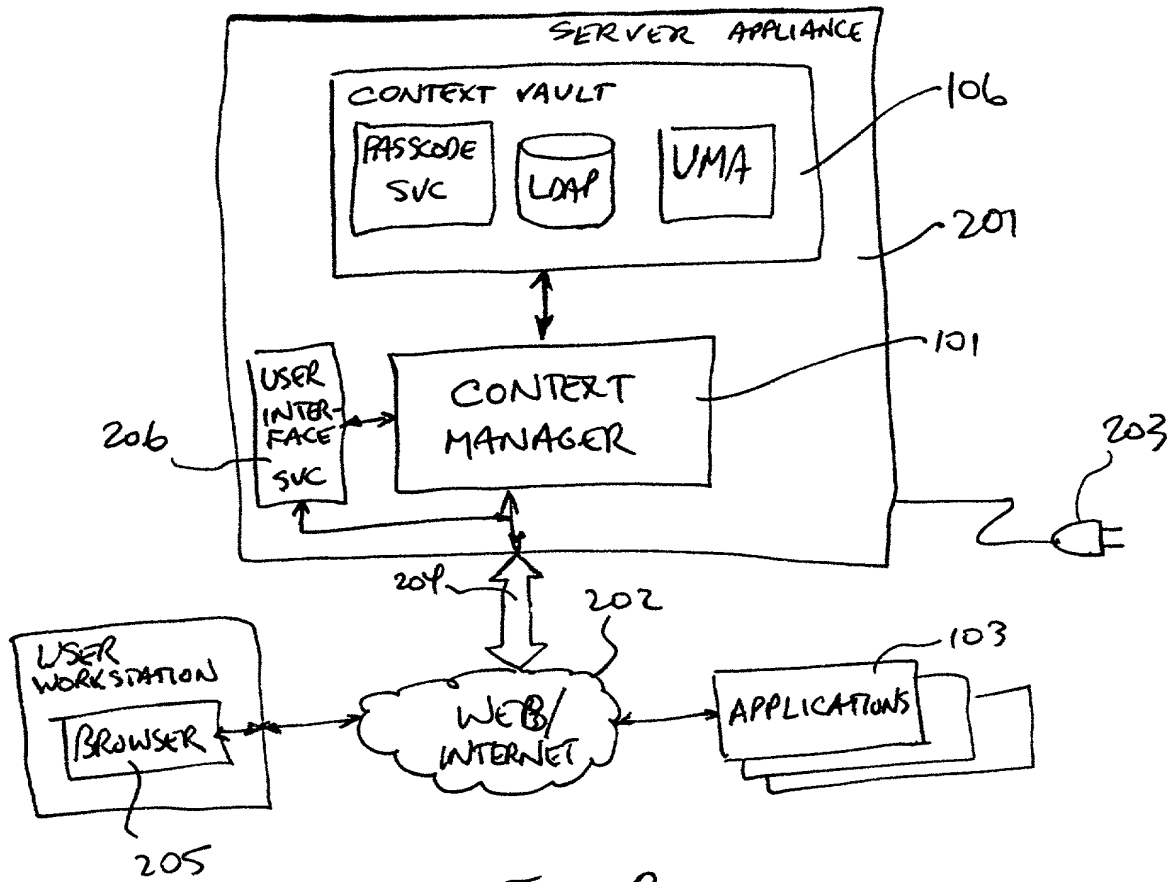


FIG. 2

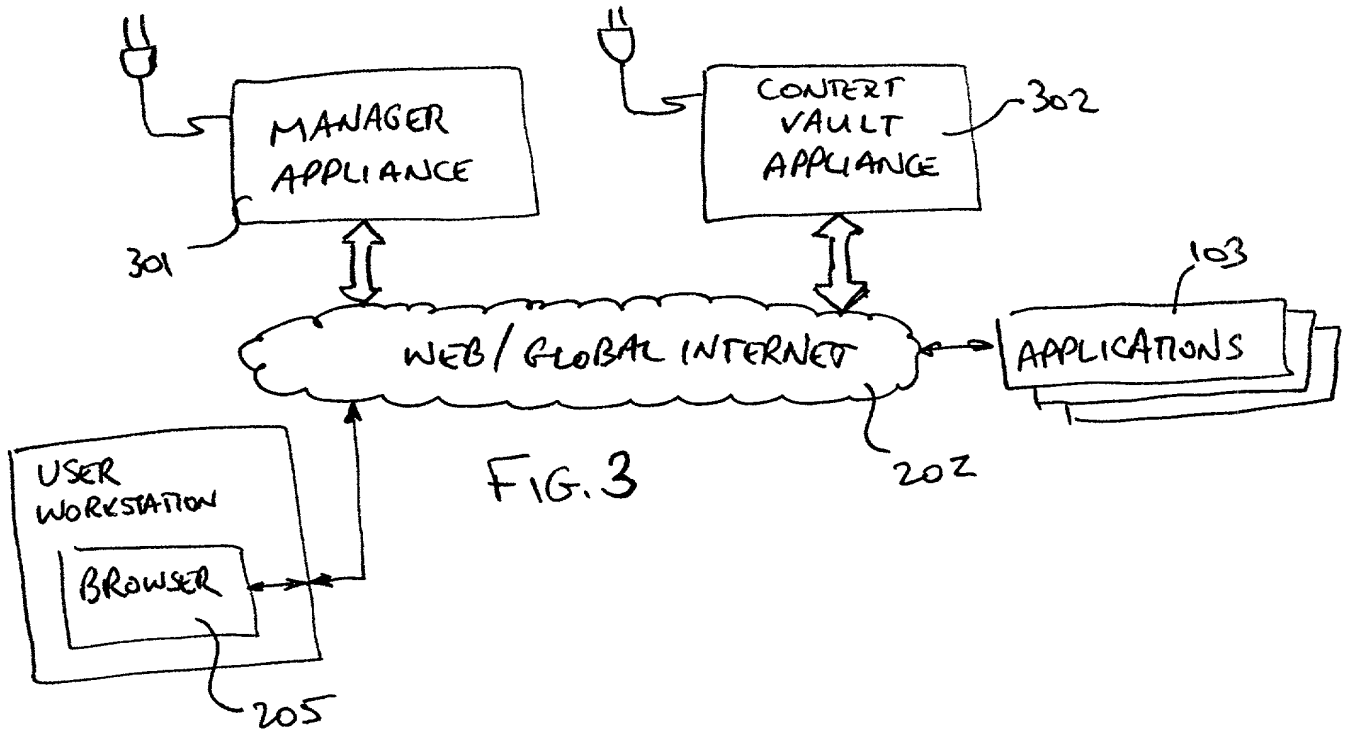


FIG. 3

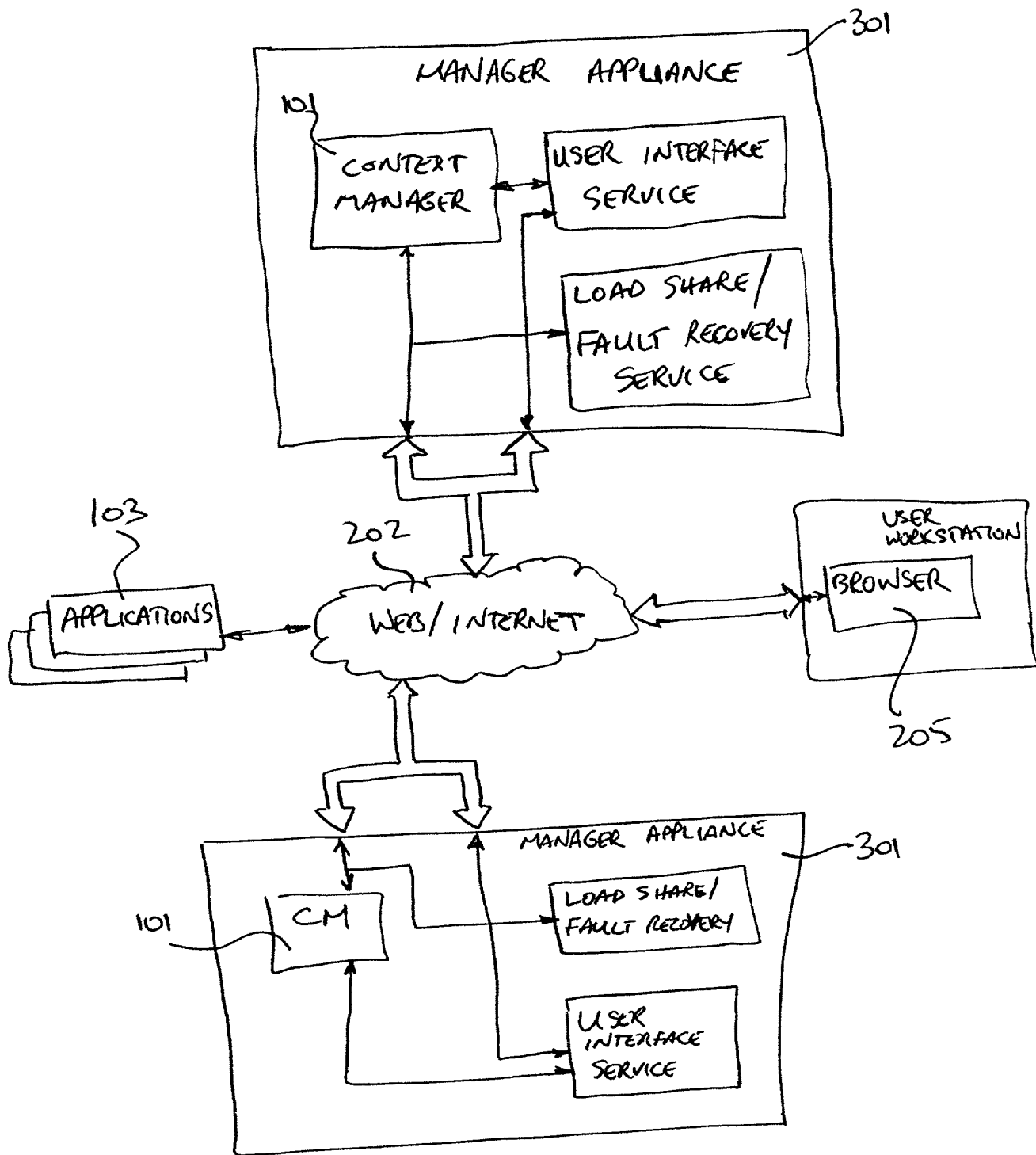


FIG. 4.

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

CONTEXT MANAGEMENT SERVER APPLIANCE

the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

<u>60/136,670</u>	<u>May 28, 1999</u>
(Application Number)	(filing date)
<u>60/139,235</u>	<u>June 14, 1999</u>
(Application Number)	(filing date)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Robert M. Abrahamson	40,886	Jason M. Honeyman	31,624	Stanley Sacke	19,000
John N. Anastasi	37,765	Robert E. Hunt	39,231	Christopher S. Schultz	37,929
Gary S. Engelson	35,128	Ronald J. Kransdorf	20,004	Alan B. Sherr	42,147
Neil P. Ferraro	39,188	Peter C. Lando	34,654	Robert A. Skrivaneck,	41,316
				Jr.	
Thomas G. Field	45,596	Helen C. Lockhart	39,248	Paul D. Sorkin	39,039
Stephen R. Finch	42,534	Matthew B. Lowrie	38,228	Alan W. Steele	45,128
Edward R. Gates	31,616	William R. McClellan	29,409	Mark Steinberg	40,828
Richard F. Giunta	36,149	Daniel P. McLoughlin	46,066	Joseph Teja, Jr	45,157
Peter J. Gordon	35,164	James H. Morris	34,681	John R. Van	40,212
				Amsterdam	
John C. Gorecki	38,471	M. Lawrence Oliverio	30,915	Michael G. Verga	39,410
William G. Gosz	27,787	Timothy J. Oyer	36,628	Robert H. Walat	46,324
Lawrence M. Green	29,384	Edward F. Perlman	28,105	Lisa E. Winsor	44,405
George L. Greenfield	17,756	Michael J. Pomianek	46,190	David Wolf	17,528

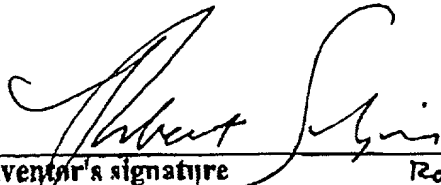
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James M. Hanifin, Jr.	39,213	Elizabeth R. Plumer	36,637	Douglas R. Wolf	36,971
Therese A. Hendricks	30,389	Randy J. Pritzker	35,986	Ivan D. Zitkovsky	37,482
Steven J. Henry	27,900	Robert E. Rigby, Jr.	36,904		
		Edward J. Russavage	43,069		

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Boston, MA 02210-2211

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.


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May 30, 2000

 Date